IN THE CLAIMS:

- 1. (Original) A method for controlling calls in a telecommunication system comprising
- the steps of:
- defining a first switching model in which call control signaling and media
- 4 switching are effectively coupled;
- defining a second switching model in which call control signaling and media
- switching are effectively decoupled; and
- at the initiation of a call or during the progress of the call assigning one of said
- 8 first and second switching models to said call.
- 1 2. (New) The method as in claim 1, wherein said telecommunication system is a con-
- 2 verged services platform (CSP).
- 3. (New) The method as in claim 1, further comprising the step of: configuring said
- telecommunication system to switch substantially no bearer traffic during said second
- 3 switching model.
- 4. (New) The method as in claim 1, wherein said step of assigning is performed on a
- 2 call-by-call basis.
- 5. (New) The method as in claim 1, wherein said step of assigning is performed ac-
- 2 cording to a host message.
- 6. (New) The method as in claim 5, wherein said step of assigning defaults to a par-
- ticular switching model in the event said host message is unavailable.

- 7. (New) The method as in claim 1, wherein said step of assigning is performed dy-
- 2 namically one or more times during said call.
- 8. (New) The method as in claim 1, further comprising the step of: providing media
- 2 resources arranged on a media server.
- 9. (New) The method as in claim 8, wherein said media resources are selected from a
- group consisting of: generating tones, detecting tones, providing conferencing, record-
- ing announcements, and playing announcements.
- 10. (New) The method as in claim 8, wherein said media server is co-located with
- 2 switching hardware of said telecommunication system.
- 11. (New) The method as in claim 8, wherein said media server is geographically re-
- 2 mote from said switching hardware of said telecommunication system.
- 12. (New) The method as in claim 1, further comprising the step of: modifying exist-
- 2 ing telecommunication switching platforms with operating software to meet capabilities
- of assigning one of said first and second switching models to said call.
- 13. (New) The method as in claim 1, further comprising the step of: establishing an
- early media path prior to receiving an answer to said initiation of said call.
- 14. (New) The method as in claim 13, wherein said early media path plays a recorded
- 2 announcement.

- 15. (New) The method as in claim 1, further comprising the step of: transitioning
- between a 2-way voice path and a 2-way data path during said call.
- 1 16. (New) The method as in claim 15, wherein said data path is used for transmitting
- data from a data communication device, such as a fax or modem.
- 17. (New) The method as in claim 1, further comprising the step of: augmenting a 2-
- way voice path with a 2-way data path during said call.
- 18. (New) The method as in claim 17, wherein said data path is used for transmitting.
- data from a data communication device, such as a fax or modem.
- 19. (New) The method as in claim 1, wherein said telecommunication system is con-
- 2 figured as an interactive voice response (IVR) system.
- 1 20. (New) The method as in claim 19, wherein said IVR system provides a prepaid
- 2 calling service.
- 1 21. (New) The method as in claim 19, further comprising the steps of:
- 2 providing a two-way RTP voice path from a first session initiation protocol end-
- 3 point to a second telecommunication system having said interactive voice response sys-
- 4 tem;
- s establishing a two-way TDM voice path between said interactive voice response
- 6 system and with said second telecommunication system;
- obtaining DTMF digits from said interactive voice response system;
- after information is obtained from said interactive voice response system:

9	i)	issuing messages to a second session initiation protocol end-point;
10	ii)	establishing a two-way RTP voice path between said first session initiation
11		protocol end-point and said second session initiation protocol end-point;
12		and
13	iii)	releasing said channel established between said interactive voice response
14		system and said second telecommunication system; and
15	establishing a two-way RTP voice path between said first end-point and said sec-	
16	ond end-point.	
1	22. (New) T	The method as in claim 1, wherein assigning said second switching model
2	further comprises the steps of:	
3	establishing a two-way RTP voice path between a first session initiation protocol	
4	end-point and a second session initiation protocol end-point, by said telecommunication	
5	system performing the following:	
6	i)	receiving a message from said first end-point and in response thereto, is-
7		suing a Request for Service with a data message to an associated host,
8		with Session Description Protocol data of said first end-point contained
9		within said data message, via an application programming interface with
10		said host;
11	ii)	receiving a Route Control message generated by said host, and in response
12		signaling a call to said second end-point using an available voice over IP
13		channel;
14	iii)	issuing to said second end-point an invite message, which includes said
15		first end-point Session Description Protocol as data, and waiting for said
16		second end-point to return a ringing message;
17	iv)	in response, issuing a ringing message to said first end-point and subse-
18		quently receiving from said second end-point, an OK message indicating

- that said second end-point is available to accept said call initiated by said 19 first end-point; 20 v) issuing a message to said host with information regarding said first and 21 second end-points and waiting for said host to respond with a message in-22 structing said telecommunication system to process said call in accordance 23 with said second switching model; and 24 vi) issuing further messages to establish a two-way RTP voice path between 25 said first and second end-points. 26
- 1 23. (New) The method as in claim 22, wherein said invite message is a SIP INVITE message.
- 1 24. (New) The method as in claim 22, further comprising the step of: establishing an
- early media path between said telecommunication system and said host to establish a
- two-way RTP early voice path between said first and second end-points.
- 1 25. (New) The method as in claim 24, wherein said second end-point plays a recorded
- announcement via said RTP early voice path.
- 26. (New) The method as in claim 25, wherein a media server is acting on behalf of
- 2 said second end-point.
- 27. (New) The method as in claim 22, further comprising the step of: transitioning
- from said two-way RTP voice path to a two-way RTP data path upon said telecommuni-
- cation system receiving a re-invite message from said second session initiation protocol
- 4 end-point.

- 28. (New) The method as in claim 27, wherein said re-invite message is a SIP RE-
- 2 INVITE message.
- 29. (New) The method as in claim 27, further comprising the steps of:
- 2 providing an internal media data transfer at said telecommunication system; and
- issuing a re-invite message to said first end-point, to establish a two-way RTP
- 4 Data path between said first end-point and said second end-point.
- 1 30. (New) A telecommunication system comprising:
- switching hardware having circuitry for operating under a first switching model
- in which call control signaling and media switching are effectively coupled, and a second
- 4 switching model in which call control signaling and media switching are effectively de-
- 5 coupled; and
- a processor to assign one of said first and second switching models to said call at
- 7 the initiation of a call or during the progress of the call.
- 31. (New) The telecommunication system as in claim 30, wherein said telecommuni-
- 2 cation system is a converged services platform (CSP).
- 1 32. (New) The telecommunication system as in claim 30, wherein said telecommuni-
- 2 cation system is configured to switch substantially no bearer traffic during said second
- 3 switching model.
- 33. (New) The telecommunication system as in claim 30, wherein said processor as-
- signs said switching models on a call-by-call basis.

- 1 34. (New) The telecommunication system as in claim 30, wherein said processor as-
- signs said switching models in response to a host message.
- 1 35. (New) The telecommunication system as in claim 34, wherein said step of assign-
- 2 ing defaults to a particular switching model in the event said host message is unavail-
- 3 able.
- 1 36. (New) The telecommunication system as in claim 30, wherein said processor as-
- signs said switching models dynamically one or more times during said call.
- 1 37. (New) The telecommunication system as in claim 30, further comprising: a media
- 2 server for providing media resources.
- 1 38. (New) The telecommunication system as in claim 37, wherein said media re-
- sources are selected from a group consisting of: generating tones, detecting tones, pro-
- viding conferencing, recording announcements, and playing announcements.
- 39. (New) The telecommunication system as in claim 37, wherein said media server is
- 2 co-located with switching hardware of said telecommunication system.
- 1 40. (New) The telecommunication system as in claim 37, wherein said media server is
- 2 geographically remote from said switching hardware of said telecommunication system.
- 41. (New) The telecommunication system as in claim 30, further comprising: operat-
- 2 ing software for modifying existing telecommunication switching platforms to meet ca-
- pabilities of assigning one of said first and second switching models to said call.

- 42. (New) The telecommunication system as in claim 30, wherein an early media path
- is established prior to receiving an answer to said initiation of said call.
- 1 43. (New) The telecommunication system as in claim 42, wherein said early media
- 2 path is utilized for playing a recorded announcement.
- 1 44. (New) The telecommunication system as in claim 30, wherein said switching
- hardware transitions between a 2-way voice path and a 2-way data path during said call.
- 1 45. (New) The telecommunication system as in claim 30, wherein said switching
- hardware augments a 2-way voice path with a 2-way data path during said call.
- 46. (New) The telecommunication system as in claim 44, wherein said data path is
- 2 used for transmitting data from a data communication device, such as a fax or modem.
- 1 47. (New) The telecommunication system as in claim 30, wherein said telecommuni-
- cation system is configured as an interactive voice response (IVR) system.
- 1 48. (New) The telecommunication system as in claim 47, wherein said IVR system
- 2 provides a prepaid calling service.
- 1 49. (New) A telecommunication system comprising:
- means for defining a first switching model in which call control signaling and
- media switching are effectively coupled;

- 4 means for defining a second switching model in which call control signaling and
- 5 media switching are effectively decoupled; and
- 6 means for assigning one of said first and second switching models to said call at
- 7 the initiation of a call or during the progress of the call.